

Product Name	Wireless HD Headphones	
Model No	AWD210R	
FCC ID.	BJM-AWD210R	

Applicant	TAUNG CO.
Address	22, Chungshan N. Rd., 3rd Sec. Taipei, Taiwan, 104, R.O.C.

Date of Receipt	Mar. 22, 2010
Issue Date	Apr. 09, 2010
Report No.	103336R-RFUSP44V01
Report Version	V1.0

The test results relate only to the samples tested.

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Test Report Certification

Issue Date: Apr. 09, 2010 Report No.: 103336R-RFUSP44V01



Accredited by NIST (NVLAP) NVLAP Lab Code: 200533-0

Product Name	Wireless HD Headphones				
Applicant	TAUNG CO.				
Address	22, Chungshan N. Rd., 3rd Sec. Taipei, Taiwan, 104, R.O.C.				
Manufacturer	TAUNG CO.				
Model No.	AWD210R				
EUT Rated Voltage	DC 3.7V (Power by Battery)				
EUT Test Voltage	AC 120V / 60Hz				
Trade Name	Acoustic Research				
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C: 2009				
	ANSI C63.4: 2003				
Test Result	Complied				

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1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Wireless HD Headphones	
Trade Name	Acoustic Research	
Model No.	AWD210R	
FCC ID.	BJM-AWD210R	
Frequency Range	2405-2477MHz	
Number of Channels	37CH	
Channel Separation	2MHz	
Type of Modulation	π /4 DQPSK (Differential Quadrature Phase Shift Keying)	
Antenna Type	Printed on PCB	
Antenna Gain	Refer to the table "Antenna List"	
Channel Control	Auto	
Power Adapter	MFR: KINGS, M/N: KSS05-050-1000U	
	Input: AC 100-240V, 50-60Hz, 150mA	
	Output: DC 5V, 1000mA	
	Cable Out: Non-Shielded, 1.8m	

Antenna List

No.	Manufacturer	Part No.	Peak Gain
1	TATUNG	N/A	2.0 dBi for 2.4 GHz

Note: The antenna of EUT is conform to FCC 15.203

Center Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 2:	2405 MHz	Channel 3:	2407 MHz	Channel 4:	2409 MHz
Channel 5:	2411 MHz	Channel 6:	2413 MHz	Channel 7:	2415 MHz
Channel 8:	2417 MHz	Channel 9:	2419 MHz	Channel 10:	2421 MHz
Channel 11:	2423 MHz	Channel 12:	2425 MHz	Channel 13:	2427 MHz
Channel 14:	2429 MHz	Channel 15:	2431 MHz	Channel 16:	2433 MHz
Channel 17:	2435 MHz	Channel 18:	2437 MHz	Channel 19:	2439 MHz
Channel 20:	2441 MHz	Channel 21:	2443 MHz	Channel 22:	2445 MHz
Channel 23:	2447 MHz	Channel 24:	2449 MHz	Channel 25:	2451 MHz
Channel 26:	2453 MHz	Channel 27:	2455 MHz	Channel 28:	2457 MHz
Channel 29:	2459 MHz	Channel 30:	2461 MHz	Channel 31:	2463 MHz
Channel 32:	2465 MHz	Channel 33:	2467 MHz	Channel 34:	2469 MHz
Channel 35:	2471 MHz	Channel 36:	2473 MHz	Channel 37:	2475 MHz
Channel 38:	2477 MHz				

- 1. The EUT is a Wireless HD Headphones with a built-in 2.4GHz transceiver.
- 2. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
- 3. These tests are conducted on a sample for the purpose of demonstrating compliance of 2.4GHz transmitter with Part 15 Subpart C Paragraph 15.247 of spread spectrum devices
- 4. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

Test Mode:

1.2. Operational Description

The EUT is a Wireless HD Headphones with a built-in 2.4GHz transceiver, The EUT operation frequency is 2405~2477MHz, The signals modulated by π /4 DQPSK (Differential Quadrature Phase Shift Keying), The Antenna is Printed on PCB.

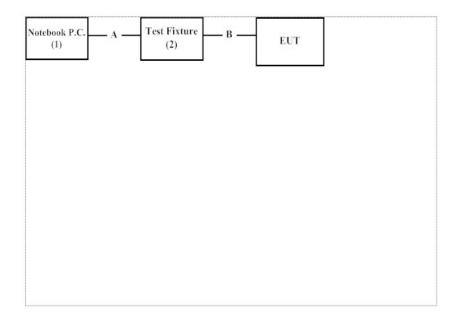
1.3. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

Pro	oduct	Manufacturer	Model No.	Serial No.	Power Cord
1.	Notebook PC	DELL	PP18L	42649348672	Non-Shielded, 0.8m
2	Test Fixture	TATUNG	N/A	N/A	N/A

Signal Cable Type		Signal cable Description	
А	USB Cable	Non-Shielded, 1.0m	
в	Signal Cable	Non-Shielded, 0.2m	

1.4. Configuration of Tested System



1.5. EUT Exercise Software

- (1) Setup the EUT as shown in section 1.4
- (2) Execute the "Audio Magic ConfigGM" program (the continuous transmission program) on the EUT.
- (3) Setup the test mode, the test channel, and the data rate.
- (4) Press OK to start the transmission.
- (5) Verify that the EUT works correctly.

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-35
Humidity (%RH)	25-75	50-65
Barometric pressure (mbar)	860-1060	950-1000

The related certificate for our laboratories about the test site and management system can be downloaded from QuieTek Corporation's Web Site : <u>http://tw.quietek.com/tw/emc/accreditations/accreditations.htm</u> The address and introduction of QuieTek Corporation's laboratories can be founded in our Web site : <u>http://www.quietek.com/</u>

Site Description: File on

Federal Communications Commission FCC Engineering Laboratory 7435 Oakland Mills Road Columbia, MD 21046 Registration Number: 92195

Accreditation on NVLAP NVLAP Lab Code: 200533-0





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FCC Accreditation Number: TW1014



2. Conducted Emission

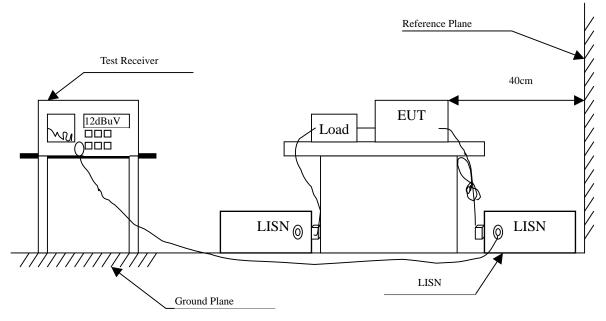
2.1. Test Equipment

The following test equipment are used during the conducted emission test:

Item	Instrument	Manufacturer	Type No./Serial No	Last Cal.	Remark
1	Test Receiver	R & S	ESCS 30/825442/17	May, 2009	
2	L.I.S.N.	R & S	ESH3-Z5/825016/6	May, 2009	EUT
3	L.I.S.N.	Kyoritsu	KNW-407/8-1420-3	May, 2009	Peripherals
4	Pulse Limiter	R & S	ESH3-Z2	May, 2009	
5	No.1 Shielded Ro	om		N/A	

Note: All instruments are calibrated every one year.

2.2. Test Setup



2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 (dBuV) Limit						
Frequency	Limits					
MHz	QP	AVG				
0.15 - 0.50	66-56	56-46				
0.50-5.0	56	46				
5.0 - 30	60	50				

2.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.) Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement. Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

2.5. Uncertainty

± 2.26 dB

2.6. Test Result of Conducted Emission

:	Wireless HD Headphones
:	Conducted Emission Test
:	Line 1
:	Mode 1: Transmit (2441MHz)
	:

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV	dB	dBuV
Line 1					
Quasi-Peak					
0.166	9.746	37.720	47.465	-18.078	65.543
0.423	9.642	33.620	43.262	-14.938	58.200
0.689	9.630	31.730	41.360	-14.640	56.000
1.052	9.670	30.150	39.820	-16.180	56.000
1.517	9.680	28.810	38.490	-17.510	56.000
6.529	9.740	35.710	45.450	-14.550	60.000
Average					
0.166	9.746	30.920	40.665	-14.878	55.543
0.423	9.642	22.770	32.412	-15.788	48.200
0.689	9.630	17.330	26.960	-19.040	46.000
1.052	9.670	16.700	26.370	-19.630	46.000
1.517	9.680	16.600	26.280	-19.720	46.000
6.529	9.740	26.750	36.490	-13.510	50.000

- 1. All Reading Levels are Quasi-Peak and average value.
- 2. "means the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor

Product Test Item Power Lir Test Mode	ne : Line 2					
Frequency	Correct	Reading	Measurement	Margin	Limit	
	Factor	Level	Level	-		
MHz	dB	dBuV	dBuV	dB	dBuV	
Line 2						
Quasi-Peak						
0.181	9.732	34.810	44.542	-20.572	65.114	
0.517	9.640	31.710	41.350	-14.650	56.000	
1.232	9.670	29.220	38.890	-17.110	56.000	
3.931	9.700	30.580	40.280	-15.720	56.000	
5.502	9.711	32.630	42.341	-17.659	60.000	
6.072	9.724	32.750	42.474	-17.526	60.000	
Average						
0.181	9.732	30.750	40.482	-14.632	55.114	
0.517	9.640	20.860	30.500	-15.500	46.000	
1.232	9.670	19.710	29.380	-16.620	46.000	
3.931	9.700	22.080	31.780	-14.220	46.000	
5.502	9.711	24.240	33.951	-16.049	50.000	
6.072	9.724	24.000	33.724	-16.276	50.000	

Note:

1. All Reading Levels are Quasi-Peak and average value.

2. "means the worst emission level.

3. Measurement Level = Reading Level + Correct Factor

3. Peak Power Output

3.1. Test Equipment

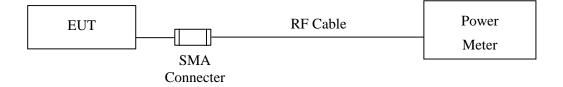
The following test equipments are used during the radiated emission tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.		
Х	Power Meter	Anritsu	ML2495A/6K00003357	May, 2009		
Х	Power Sensor	Anritsu	MA2411B/0738448	Jun, 2009		
Note:	1. All instruments are calibrated every one year.					

2. The test instruments marked by "X" are used to measure the final test results.

3.2. Test Setup

Conducted Measurement



3.3. Limits

The maximum peak power shall be less 1 Watt.

3.4. Test Procedure

The EUT was tested according to DTS test procedure of Mar. 2005 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

3.5. Uncertainty

 \pm 1.27 dB

3.6. Test Result of Peak Power Output

Product	:	Wireless HD Headphones
Test Item	:	Peak Power Output Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit

Channel No.	Frequency	Measurement Level	Required Limit	Result
	(MHz)	(dBm)	(dBm)	rtoodit
02	2405	4.02	<30dBm	Pass
20	2441	3.62	<30dBm	Pass
38	2477	3.17	<30dBm	Pass

Note: Peak Power Output Value =Reading value on peak power meter + cable loss

4. Radiated Emission

4.1. Test Equipment

The following test equipment are used during the radiated emission test:

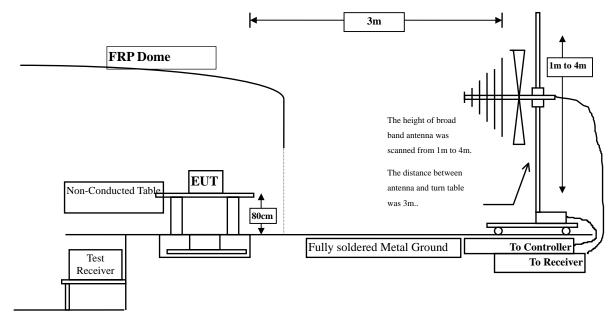
Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
Site # 3	Х	Bilog Antenna	Schaffner Chase	CBL6112B/2673	Sep., 2009
	Х	Horn Antenna	Schwarzbeck	BBHA9120D/D305	Sep., 2009
	Х	Horn Antenna	Schwarzbeck	BBHA9170/208	Jul., 2009
	Х	Pre-Amplifier	Agilent	8447D/2944A09549	Sep., 2009
	Х	Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2009
	Х	Test Receiver	R & S	ESCS 30/ 825442/018	Sep., 2009
	Х	Coaxial Cable	QuieTek	QTK-CABLE/ CAB5	Feb., 2010
	Х	Controller	QuieTek	QTK-CONTROLLER/ CTRL3	N/A
	Х	Coaxial Switch	Anritsu	MP59B/6200265729	N/A

Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

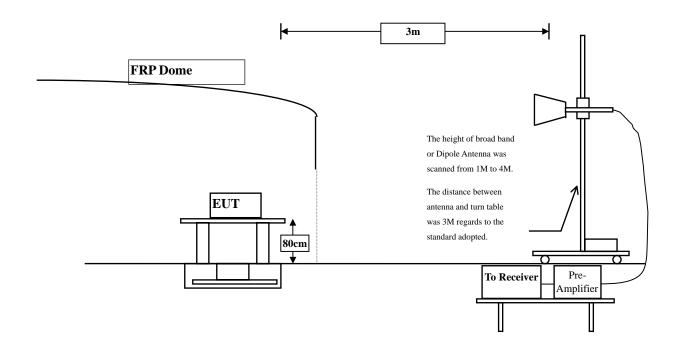
2. The test instruments marked with "X" are used to measure the final test results.

4.2. Test Setup

Radiated Emission Below 1GHz



Radiated Emission Above 1GHz





4.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209(a) Limits					
Frequency MHz	uV/m @3m	dBuV/m@3m			
30-88	100	40			
88-216	150	43.5			
216-960	200	46			
Above 960	500	54			

Remarks: E field strength (dBuV/m) = 20 log E field strength (uV/m)

4.4. Test Procedure

The EUT was setup according to ANSI C63.4, 2003 and tested according to DTS test procedure of Mar. 2005 KDB558074 for compliance to FCC 47CFR 15.247 requirements. The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned between 1 meter and 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4:2003 on radiated measurement.

The resolution bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

Radiated emission measurements below 1GHz are made using broadband Bilog antenna and above 1GHz are made using Horn Antennas.

The measurement is divided into the Preliminary Measurement and the Final Measurement.

The suspected frequencies are searched for in Preliminary Measurement with the measurement antenna kept pointed at the source of the emission both in azimuth and elevation, with the polarization of the antenna oriented for maximum response. The antenna is pointed at an angle towards the source of the emission, and the EUT is rotated in both height and polarization to maximize the measured emission. The emission is kept within the illumination area of the 3 dB bandwidth of the antenna.

The worst radiated emission is measured in the Open Area Test Site on the Final Measurement.

The measurement frequency range form 30MHz - 10th Harmonic of fundamental was investigated.

4.5. Uncertainty

- ± 3.9 dB above 1GHz
- ± 3.8 dB below 1GHz

4.6. Test Result of Radiated Emission

Product	:	Wireless HD Headphones
Test Item	:	Harmonic Radiated Emission Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit (2405MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4810.000	3.323	48.290	51.613	-22.387	74.000
7215.000	10.289	43.940	54.230	-19.770	74.000
9620.000	13.595	37.280	50.876	-23.124	74.000
Vertical					
Peak Detector:					
4810.000	6.591	51.170	57.761	-16.239	74.000
7215.000	11.151	43.160	54.312	-19.688	74.000
9620.000	14.014	36.550	50.565	-23.435	74.000
Noto:					

Note:

1. Correct factor = Antenna Factor + Cable Loss - Pre-amplifier Gain

2. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Average Detector:					
Frequency	Peak	Duty Cycle	Measurement	Margin	Limit
	Measurement	Correct Factor	Level		
MHz	dBuV/m	dB	dBuV/m	dB	dBuV/m
Horizontal					
7215.000	54.23	-20.000	34.230	-19.770	54.000
Vertical					
4810.000	57.761	-20.000	37.761	-16.239	54.000
7215.000	54.312	-20.000	34.312	-19.688	54.000

- 1. AVG Measurement=Peak Measurement + Duty Cycle Correct Factor
- 2. The Duty Cycle is refer to section 9.
- 3. If Duty Cycle is smaller than -20dB,based on FCC part15 the duty cycle correction factor is -20dB for calculating average emission.

Product	: Wireless HD Headphones				
Test Item	: Harmonic Radiated Emission Data				
Test Site	: No.3 OA	ATS			
Test Mode	: Mode 1	Transmit (2441	1MHz)		
Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4882.000	3.001	48.010	51.011	-22.989	74.000
7323.000	11.846	43.610	55.457	-18.543	74.000
9764.000	12.563	37.750	50.313	-23.687	74.000
Vertical					
Peak Detector:					
4882.000	5.713	51.950	57.664	-16.336	74.000
7323.000	12.727	43.430	56.158	-17.842	74.000
9764.000	13.028	36.690	49.718	-24.282	74.000

Note:

1. Correct factor = Antenna Factor + Cable Loss - Pre-amplifier Gain

2. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Average Detector:

Frequency	Peak	Duty Cycle	Measurement	Margin	Limit
	Measurement	Correct Factor	Level		
MHz	dBuV/m	dB	dBuV/m	dB	dBuV/m
Horizontal					
7323.000	55.457	-20.000	35.457	-18.543	54.000
Vertical					
4882.000	57.664	-20.000	37.664	-16.336	54.000
7323.000	56.158	-20.000	36.158	-17.842	54.000

- 1. AVG Measurement=Peak Measurement + Duty Cycle Correct Factor
- 2. The Duty Cycle is refer to section 9.
- 3. If Duty Cycle is smaller than -20dB,based on FCC part15 the duty cycle correction factor is -20dB for calculating average emission.

Product	:	Wireless HD Headphones
Test Item	:	Harmonic Radiated Emission Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit (2477MHz)

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4954.000	2.777	49.020	51.797	-22.203	74.000
7431.000	12.481	45.060	57.541	-16.459	74.000
9908.000	13.389	36.450	49.839	-24.161	74.000
Vertical					
Peak Detector:					
4954.000	5.552	50.410	55.962	-18.038	74.000
7431.000	13.412	46.070	59.483	-14.517	74.000
9908.000	13.968	36.420	50.388	-23.612	74.000

Note:

1. Correct factor = Antenna Factor + Cable Loss - Pre-amplifier Gain

2. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Average Delector.					
Frequency	Peak	Duty Cycle	Measurement	Margin	Limit
	Measurement	Correct Factor	Level		
MHz	dBuV/m	dB	dBuV/m	dB	dBuV/m
Horizontal					
7431.000	57.451	-20.000	37.451	-16.549	54.000
Vertical					
4954.000	55.962	-20.000	35.962	-18.038	54.000
7431.000	59.483	-20.000	39.483	-14.517	54.000

Average Detector:

- 1. AVG Measurement=Peak Measurement + Duty Cycle Correct Factor
- 2. The Duty Cycle is refer to section 9.
- 3. If Duty Cycle is smaller than -20dB,based on FCC part15 the duty cycle correction factor is -20dB for calculating average emission.

Product Test Item Test Site Test Mode	 Wireless HD Headphones General Radiated Emission Data No.3 OATS Mode 1: Transmit (2441MHz) 				
Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
99.840	-7.471	42.991	35.520	-7.980	43.500
142.520	-10.427	47.081	36.654	-6.846	43.500
303.540	-3.074	42.169	39.095	-6.905	46.000
577.080	3.169	33.480	36.649	-9.351	46.000
666.320	2.031	35.326	37.358	-8.642	46.000
749.740	3.320	35.948	39.268	-6.732	46.000
Vertical					
99.840	-0.021	39.101	39.080	-4.420	43.500
136.700	-5.143	44.332	39.189	-4.311	43.500
344.280	-3.171	40.354	37.184	-8.816	46.000
664.380	-1.918	36.361	34.443	-11.557	46.000
749.740	2.510	33.457	35.967	-10.033	46.000
955.380	6.657	34.386	41.043	-4.957	46.000

- 1. All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurements as necessary.
- 2. " " means the worst emission level.
- 3. Measurement Level = Reading Level + Correct Factor

5. RF antenna conducted test

5.1. Test Equipment

The following test equipments are used during the radiated emission tests:

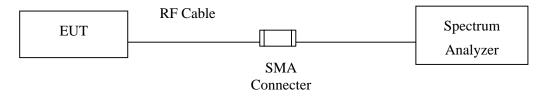
	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2009
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2009
Х	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2010

Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

2. The test instruments marked with "X" are used to measure the final test results.

5.2. Test Setup

RF antenna Conducted Measurement:



5.3. Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.4. Test Procedure

The EUT was tested according to DTS test procedure of Mar. 2005 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Set VBW> RBW, scan up through 10th harmonic.

5.5. Uncertainty

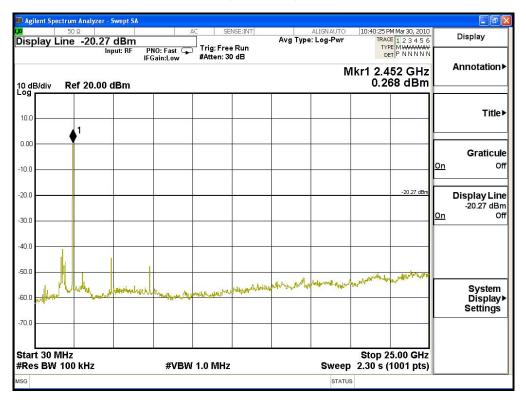
The measurement uncertainty Conducted is defined as \pm 1.27dB

5.6. Test Result of RF antenna conducted test

Product	:	Wireless HD Headphones
Test Item	:	RF antenna conducted test
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit

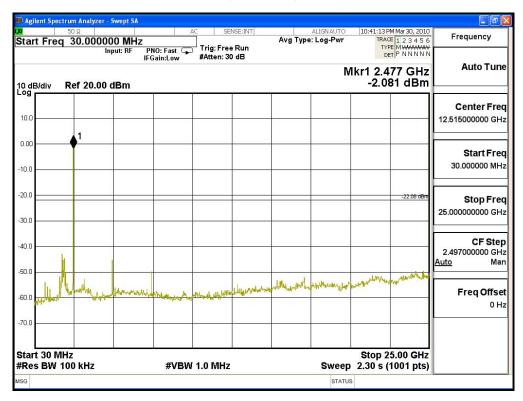
Channel 02 (2405MHz) 30M-25GHz

💴 Agilent Spectrum Analyzer - Swept S/				
X 50 Ω Start Freq 30.000000 MH Input: RF	PNO: East D Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr	10:38:53 PM Mar 30, 2010 TRACE 1 2 3 4 5 6 TYPE M WWWWW DET P N N N N N	Frequency
10 dB/div Ref 20.00 dBm	IFGain:Low #Atten: 30 dB	Μ	lkr1 2.405 GHz -0.095 dBm	Auto Tune
10.0				Center Freq 12.515000000 GHz
-10.0				Start Freq 30.000000 MHz
-20.0			-20.10 dBm	Stop Freq 25.000000000 GHz
-40.0	1			CF Step 2.497000000 GHz <u>Auto</u> Man
-60.0 police	and many hard one was many of the	nersolurite spinet a superior of the spit	and an additional and a second second	Freq Offset 0 Hz
Start 30 MHz #Res BW 100 kHz	#VBW 1.0 MHz	Sweep	Stop 25.00 GHz 2.30 s (1001 pts)	
MSG		STATUS		



Channel 20 (2441MHz) 30M-25GHz

Channel 38 (2477MHz) 30M-25GHz



6. Band Edge

6.1. Test Equipment

RF Conducted Measurement

The following test equipments are used during the band edge tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2009
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2009
Х	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2010

Note:

- 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
- 2. The test instruments marked with "X" are used to measure the final test results.

RF Radiated Measurement:

The following test equipments are used during the band edge tests:

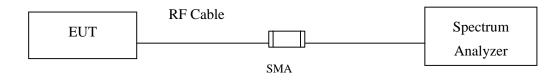
Test Site	Equipment		Manufacturer	Model No./Serial No.	Last Cal.
Site # 3		Bilog Antenna	Schaffner Chase	CBL6112B/2673	Sep., 2009
	Х	Horn Antenna	Schwarzbeck	BBHA9120D/D305	Sep., 2009
		Horn Antenna	Schwarzbeck	BBHA9170/208	Jul., 2009
	Х	Pre-Amplifier	Agilent	8447D/2944A09549	Sep., 2009
	Х	Spectrum Analyzer	Agilent	E4407B / US39440758	May, 2009
		Test Receiver	R & S	ESCS 30/ 825442/018	Sep., 2009
	Х	Coaxial Cable	QuieTek	QTK-CABLE/ CAB5	Feb., 2010
	Х	Controller	QuieTek	QTK-CONTROLLER/ CTRL3	N/A
	Х	Coaxial Switch	Anritsu	MP59B/6200265729	N/A

Note: 1. All instruments are calibrated every one year.

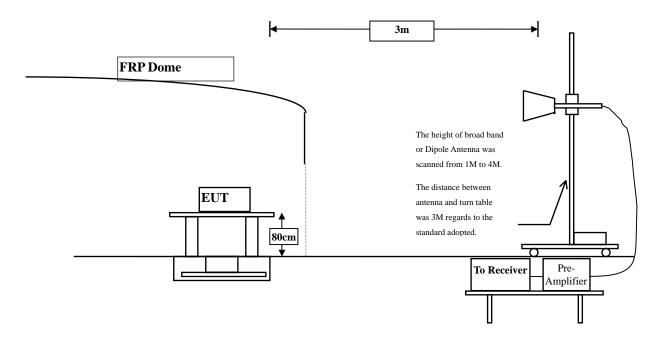
2. The test instruments marked by "X" are used to measure the final test results.

6.2. Test Setup

RF Conducted Measurement



RF Radiated Measurement:



6.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

6.4. Test Procedure

The EUT was setup according to ANSI C63.4, 2003 and tested according to DTS test procedure of Mar. 2005 KDB558074 for compliance to FCC 47CFR 15.247 requirements. The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4:2003 on radiated measurement.

6.5. Uncertainty

- ± 3.9 dB above 1GHz
- ± 3.8 dB below 1GHz

6.6. Test Result of Band Edge

Product	:	Wireless HD Headphones
Test Item	:	Band Edge Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit

Fundamental Filed Strength

Antenna Pole	Frequency [MHz]	Correction Factor [dB/m]	Reading Level [dBuV]	Emission Level [dBuV/m]	Detector
Horizontal	2405	31.593	61.870	93.463	Peak
Vertical	2405	30.926	62.810	93.736	Peak

Note: 1:Spectrum Analyzer setting:

Peak detector: RBW=1MHz, VBW=1MHz

Average detector: RBW=1MHz, VBW=10Hz

Band Edge Test Data

Antenna Pole	Test Frequency (MHz)	Fundamental (dBuV/m)	∆ (dB)	Band Edge Field Strength (dBuV/m)	Detector
Horizontal	2389.25	93.463	52.883	40.58	Peak
Horizontal					Average
Vertical	2389.25	93.736	52.883	40.85	Peak
Vertical					Average

Note:

The Band Edge Field Strength was calculated using the Fundamental and Conducted Band Edge measurements per the Marker-Delta Method with the following formula:

Band Edge field Strength = $F - \Delta$

F = Fundamental field Strength (Peak or Average)

 Δ = Conducted Band Edge Delta (Peak or Average)



-	I eak Delect	of of condu	icted Band Edg	ge Della	
💴 Agilent Spectrum Analyzer - S	iwept SA				
0 Ω 50 Ω Center Freq 2.39000	00000 GHz	Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	08:23:58 PM Mar 31, 2010 TRACE 1 2 3 4 5 6 TYPE MWWWWWW DET P N N N N N	Frequency
10 dB/div Ref 10.00 c	IFGain:Low	#Atten: 20 dB	Mkr4	2.373 55 GHz -49.128 dBm	Auto Tune
-10.0 -20.0					Center Freq 2.390000000 GHz
-30.0 -40.0 -50.0	al another work to a water	⁸ 2			Start Freq 2.365000000 GHz
-60.0 -70.0 -80.0					Stop Freq 2.415000000 GHz
Center 2.39000 GHz #Res BW 1.0 MHz MKR MODE TRO SCL	X		#Sweep	Span 50.00 MHz 500 ms (1001 pts) EUNOTION VALUE	CF Step 5.000000 MHz <u>Auto</u> Man
1 N 1 f 2 N 1 f 3 N 1 f 4 N 1 f 5 - - 6 7 - - - 8 - - -		3.773 dBm -50.762 dBm -49.110 dBm -49.128 dBm			Freq Offset 0 Hz
10 11 12 12 MSG			STATUS		

Peak Detector of conducted Band Edge Delta

Product	:	Wireless HD Headphones
Test Item	:	Band Edge Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit

Fundamental Filed Strength

Antenna Pole	Frequency [MHz]	Correction Factor [dB/m]	Reading Level [dBuV]	Emission Level [dBuV/m]	Detector
Horizontal	2477	32.133	61.900	94.033	Peak
Vertical	2477	31.392	60.940	92.332	Peak

Note: 1:Spectrum Analyzer setting:

Peak detector: RBW=1MHz, VBW=1MHz

Average detector: RBW=1MHz, VBW=10Hz

Band Edge Test Data

Antenna Pole	Test Frequency (MHz)	Fundamental (dBuV/m)	∆ (dB)	Band Edge Field Strength (dBuV/m)	Detector
Horizontal	2483.5	94.033	47.456	46.577	Peak
Horizontal					Average
Vertical	2483.5	92.332	47.456	47.45	Peak
Vertical					Average

Note:

The Band Edge Field Strength was calculated using the Fundamental and Conducted Band Edge measurements per the Marker-Delta Method with the following formula:

Band Edge field Strength = $F - \Delta$

F = Fundamental field Strength (Peak or Average)

 Δ = Conducted Band Edge Delta (Peak or Average)

							Swept SA	Analyzer -		ent Sp	Agil
Marker	08:25:25 PM Mar 31, 2010 TRACE 1 2 3 4 5 6	ALIGNAUTO : Log-Pwr	Avg Typ	INSE:INT	AC SE	GH7	000000		50 s	er 3	rk
Select Marker	DET P N N N N N	100/100	Avg Hold		Trig: Free #Atten: 20	PNO: Fast (IFGain:Low	iput: RF				
2	2.483 50 GHz -44.437 dBm	Mkr2					dBm	10.00	Ref	/div	
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Fixed											.0
	Span 50.00 MHz			77	20			0 GHz	4925	or 2	L
c	0 ms (1001 pts)	#Sweep 5		:	W 1.0 MHz	#VB			1.0		
U	FUNCTION VALUE	NCTION WIDTH	NCTION		Y		×		IRC SCL		
					3.019 d -44.437 d	6 80 GHz 3 50 GHz			1 f 1 f		
Properties						1					
								10 13		-	
Mo											
1 of											
										1.1	

Peak Detector of conducted Band Edge Delta

7. Occupied Bandwidth

7.1. Test Equipment

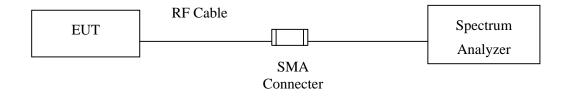
The following test equipments are used during the radiated emission tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2009
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2009
Х	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2010

Note: 1. All instruments are calibrated every one year.

2. The test instruments marked by "X" are used to measure the final test results.

7.2. Test Setup



7.3. Limits

The minimum bandwidth shall be at least 500 kHz.

7.4. Test Procedure

The EUT was setup according to ANSI C63.4, 2003; tested according to DTS test procedure of Mar. 2005 KDB558074 for compliance to FCC 47CFR 15.247 requirements. Set RBW = 100 kHz, Span greater than RBW.

7.5. Uncertainty

 \pm 150Hz

7.6. Test Result of Occupied Bandwidth

Product	:	Wireless HD Headphones
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit (2405MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
02	2405.00	11400	>500	Pass

Figure Channel 02:

Mkr1 2.405 00 GHz 0.121 dBm Auto 10 gB/div Ref 20.00 dBm 0.121 dBm Center 10.0 1 1 Center 2.4050000 10.0 1.14 MHz 2.3800000 Sta 20.0 1 1 Center 2.400000 30.0 1 1 Center 2.400000	
Mkr1 2.405 00 GHz 0.121 dBm Auto 100 0.121 dBm Center 100 1 Center 100 1 Status 100 1 1 100 1 1 100 1 1 100 1 1 100 1 1 100 1 1 <th></th>	
Mkr1 2.405 00 GHz 0.121 dBm Auto 100 0.121 dBm Center 100 1 Center 100 1 Status 100 1 1 100 1 1 100 1 1 100 1 1 100 1 1 100 1 1 <th></th>	
Mkr1 2.405 00 GHz 0.121 dBm Auto 100 dB/div Ref 20.00 dBm 0.121 dBm Center 100 1 1 1 2.4050000 100 1 1 1 1 2.4050000 100 1 1 1 1 2.4050000 100 1 1 1 1 1 2.4050000 100 1 1 1 1 1 1 2.4050000 100 1	0 H
Mkr1 2.405 00 GHz 0.121 dBm Auto 0 dB/div Ref 20.00 dBm 0.121 dBm Center 0 dB/div 1	n Offse
Mkr1 2.405 00 GHz 0.121 dBm Auto 0 dB/div Ref 20.00 dBm 0.121 dBm Center 0 dB/div 1 2.4050000 2.4050000 2.4050000 0.00	0000 MH Ma
Mkr1 2.405 00 GHz Auto 0 dB/div Ref 20.00 dBm 0.121 dBm Center 0 dB/div 1 Center 2.4050000 State 10.0 1 -6.00 dB State State 20.0 -6.00 dB State State State 10.0 -6.00 dB State State State 20.0 -6.00 dB State State State State	CF Ste
Mkr1 2.405 00 GHz Auto 0 dB/div Ref 20.00 dBm 0.121 dBm Cente 0 dB/div 1 Cente 2.4050000 0.00	op Fre
Mkr1 2.405 00 GHz 0.121 dBm 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	
O dB/div Ref 20.00 dBm Mkr1 2.405 00 GHz Automotion 0 dB/div Ref 20.00 dBm 0.121 dBm Center 10.0 1 1 1 1	art Fre 0000 G⊦
Mkr1 2.405 00 GHz 0.121 dBm 10.0 10.0	
0 dB/div Ref 20.00 dBm 0.121 dBm	
Mkr1 2.405 00 GHz	ter Fre
	to Tun
Input: RF PNO: Fast Trig: Free Run Avg Hold: 31/100	
50 Ω AC SENSE:INT ALIGNAUTO 10:23:26 PM Mar 30, 2010 Freque center Freq 2.405000000 GHz Avg Type: Log-Pwr TRACE 1 2 3 4 5 6 Freque	ency

Product	:	Wireless HD Headphones
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit (2441MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
20	2441.00	11500	>500	Pass

Figure Channel 20:

Contor 2.4	4100 GHz						#Sweep	Span 5	0.00 MHz	
70.0										
50.0 112 minu	have were the work of the	and the Shipping Street	antell and			V Vrin	and a feature of the last	hand for the second	town ^{een a} rthe-day	Freq Offse 0 ⊦
0.0			ht.	pr -	لم س	M				<u>Auto</u> Ma
0.0										CF Ste 5.00000 M
0.0	_			لم الم	4°04					2.466000000 G
D.O	_			-						Stop Fr
0.0	_				-6.00 d 1.15 M					2.416000000 G
.00	_					P				Start Fro
0.0	_									Center Fre 2.441000000 G
odB/div	Ref 20.00 c	1Bm							86 dBm	0
	Inj	put: RF F IF	PNO: Fast 🖵 Gain:Low	Trig: Free #Atten: 30		Avg Hold				Auto Tu
enter Fr	50 Ω eq 2.4410		Hz]	NSE:INT		ALIGNAUTO	TRAC	M Mar 30, 2010	Frequency

Product	:	Wireless HD Headphones
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit (2477MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
38	2477.00	11700	>500	Pass

Figure Channel 38:

Agilent Spectrum Analyzer - Swept S	A			
50 Q		SE:INT ALIGN AUT Avg Type: Log-Pw		Frequency
center Freq 2.47700000 Input: RF	O GHz PNO: Fast Trig: Free IFGain:Low #Atten: 30	Run Avg Hold: 21/100	TYPE MWWWWW DET P N N N N N	
0 dB/div Ref 20.00 dBm		MI	r1 2.477 00 GHz -1.428 dBm	Auto Tun
og				Center Fre
0.0				2.477000000 GH
.00		1		
		-6.00 dB		Start Fre
0.0		1.17 MHz		2.452000000 G
0.0				Stop Fre
	للماليمو	Wm .		2.502000000 Gi
0.0		N I		
0.0	M			CF Ste 5.000000 M
0.0	م ^و م الم	lou		Auto Ma
.0	المعلم المراسية			
0.0 Martinger alproduction at the second	rum when the	V Loty quere where and	topological and the second	Freq Offs
0.0				
enter 2.47700 GHz Res BW 100 kHz	#VBW 100 kHz	#\$\\\ee	Span 50.00 MHz 500 ms (1001 pts)	
	#100 KHZ		тия	

8. Power Density

8.1. Test Equipment

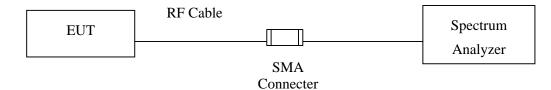
The following test equipments are used during the radiated emission tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.	_
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2009	
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2009	
Х	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2010	

Note: 1. All equipments are calibrated every one year.

2. The test instruments marked by "X" are used to measure the final test results.

8.2. Test Setup



8.3. Limits

The transmitted power density averaged over any 1 second interval shall not be greater +8dBm in any 3kHz bandwidth.

8.4. Test Procedure

The EUT was setup according to ANSI C63.4, 2003; tested according to DTS test procedure of Mar. 2005 KDB558074 for compliance to FCC 47CFR 15.247 requirements. Set RBW= 3 kHz, VBW=10KHz, Sweep time=(SPAN/3KHz), detector=Peak detector

8.5. Uncertainty

 \pm 1.27 dB

8.6. Test Result of Power Density

Product	:	Wireless HD Headphones
Test Item	:	Power Density Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit (2405MHz)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
02	2405.00	-11.461	< 8dBm	Pass

Figure Channel 02:

Agilent Spectrum Analyzer - Swept SA				
50 Ω enter Freq 2.404725000 GHz Input: RF PN0: F IFGain:1	ar C SENSE:INT Trig: Free Run ow #Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 1/100	10:36:14 PM Mar 30, 2010 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N N	Frequency
0 dB/div Ref 20.00 dBm		Mkr1 2.4	104 665 9 GHz -11.461 dBm	Auto Tune
				Center Freq 2.404725000 GHz
2.00 10.0 Atternersportationskilterialistorialistorialistorialistorialistorialistorialistorialistorialistorialistorialisto	*##1144/hpst.Jock1-40.0-114-40.0-11/14-14	ะกุลปู่ใหม่เห็นสีน (ก็เสริม) ๆ เป็นไม่	horamariantanitati	Start Freq 2.404575000 GHz
30.0				Stop Freq 2.404875000 GHz
10.0				CF Step 30.000 kHz <u>Auto</u> Mar
50.0				Freq Offset 0 Hz
enter 2.4047250 GHz Res BW 3.0 kHz #	¢VBW 10 kHz	#Sweep	Span 300.0 kHz 100 s (1001 pts)	
5G		STATUS		

Product	:	Wireless HD Headphones
Test Item	:	Power Density Data
Test Site	:	No.3OATS
Test Mode	:	Mode 1: Transmit (2441MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
20	2441	-11.909	< 8dBm	Pass

Figure Channel 20:

				- 12		- Swept SA	rum Analyzer	Agilent Spec
Peak Search	10:33:26 PM Mar 30, 2010 TRACE 1 2 3 4 5 6	ALIGNAUTO	Avg	SENSE:INT	H7 AC	800000	50 Ω 2 441109	arker 1
	DET P N N N N N	old: 1/100	Avg H	rig: Free Run Atten: 30 dB	NO Ear	nput: RF		
NextPea	441 109 8 GHz -11.909 dBm	Mkr1 2.4				dBm	Ref 20.00	dB/div
Next Rig								
Next Le							1	00
Marker De	floatine and the second	hlat h parts high sink	whenthe	_{พระ} สระส _{าม} ประชุมุพระ _เ ก	in the maxage states	adaq.min.uqkank		1.0
								1.0
Mkr→C								
Mkr→RefL						-		
								J.O
Mo 1 of	Span 300.0 kHz 100 s (1001 pts)	#Sweep		kHz	#VBW 1	l Iz	12250 GI .0 kHz	enter 2.4 Res BW 3
		STATUS		arend a r				

Product	:	Wireless HD Headphones
Test Item	:	Power Density Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit (2477MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
38	2477.00	-12.745	< 8dBm	Pass

Figure Channel 38:

Peak Search	10:30:20 PM Mar 30, 2010 TRACE 1 2 3 4 5 6 TYPE MWWWW	ALIGNAUTO		SENSE:INT	AC		0400000	^{50 Ω}	arker 1
NextPea	476 610 4 GHz	d: 1/100 Mkr1 2.4	Avgir	: Free Run en: 30 dB		PNO: Far ⊂ IFGain:Low	Input: RF		
	-12.745 dBm						0 dBm	Ref 20.0	dB/div
Next Rig						_		_).0
Next Le					1				
	with the more thanks	mutan	www.humha	angly any how many	Mananaharanaharanaharanaharanaharanaharanaharanaharanaharanaharanaharanaharanaharanaharanaharanaharanaharanahar	and the restriction	wheneunskheimun	a horization	.0 natter/setu
Marker Del									1.0
									1.0
Mkr→C									
									1.0
Mkr→RefL									
Мо					_				
1 of	Span 300.0 kHz	# C woon			W 10 k	#\/P\	GHz	1766500 C	enter 2.4 tes BW
	100 s (1001 pts)	#Sweep		Π2	3W 10 k	#VB		3.0 KHZ	

9. Duty Cycle

9.1. Test Equipment

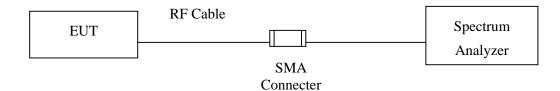
The following test equipments are used during the band edge tests:

_	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2009
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2009
Х	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2010

Note: 1. All equipments are calibrated every one year.

2. The test equipments marked by "X" are used to measure the final test results.

9.2. Test Setup



9.3. Uncertainty

± 150Hz



9.4. Test Result of Duty Cycle

Product	:	Wireless HD Headphones
Test Item	:	Duty Cycle Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmit

50 Ω	Swept SA	SENSE:INT	ALIGNAUTO	10:17:48 AM Mar 31, 2010	
			/g Type: Log-Pwr	TRACE 1 2 3 4 5 6 TYPE WWWWWWWW	Trigger
) dB/div Ref -20.00	nput: RF PNO: Far ↔ IFGain:High	#Atten: 0 dB		Mkr1 50.00 ms -97.01 dBm	FreeR
0.0					Vide (IF Envelope
D.0					Lin
0.0 0.0				TRIG LVL	External
0.0					External
	ialhouturanahalalhalayoyoyaalaadaan M	palitar (1.4) (1. And 1. And 1	v ^a unlahavaalulahehani	en allen all of the first and the state of the	RF Bur (Wideban
enter 2.428900000 es BW 100 kHz		100 kHz	Swoon 1	Span 0 Hz 00.0 ms (1001 pts)	M (

<mark>a</mark> Iarl		^{50 Ω} 97.9333	3.05	ρ	IC SE	NSE:	INT	Avg		Log-Pwr	TRA	AM Mar 31, 2010 CE 1 2 3 4 5 6	Marker
inari			nput: RF P	NO: Fast ↔↔ Gain:High	Trig: Vide #Atten: 0						יד ו	PE WWWWWWW DET P N N N N N	Select Marke
0 dE	/div F	lef -20.00) dBm							2	Mkr1	97.93 µs •0.79 dB	
. og 30.0													Norm
40.0				6									
60.0							l a						De
0.0							۹ 					TRIG LVL	
0.0													Fixe
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110													
	er 2.42 BW 1.0	B900000	GHz	#\/B\M	100 kHz					woon 7		Span 0 Hz (1001 pts)	M o 1 o

Time on of 100ms= (97.93us*24) = 2.350 ms Duty Cycle= 2.35ms / 100ms= 0.0235 Duty Cycle correction factor= 20 LOG 0.0235= -32.579 dB

Duty Cycle correction factor	-20.000	dB
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Remark:

If Duty Cycle is smaller than -20dB,based on FCC part15 the duty cycle correction factor is -20dB for calculating average emission.

10. EMI Reduction Method During Compliance Testing

No modification was made during testing.